

Tour the CPEC

To schedule a tour for your school or community group, the MDAQMD Community Relations & Education Department at (760) 245-1661 ext. 6104.



In keeping with its commitment to promoting clean energy, the District has installed seven Electrical Vehicle Charging (EVC) stations located in the north and south parking lots. These EVC stations are available at no charge to the public on a first-come basis. In addition to serving the public, these EVC stations will enable the District to charge electric fleet vehicles in the future.



Why Renewable Energy?

Historically, the United States has relied heavily on fossil fuels for much of its energy use. Fossil fuels, like coal and oil, are non-renewable, which means these sources will eventually run out. As the supply diminishes, the more costly they become. Renewable energy sources come from natural sources such as sunlight, wind, rain, ocean tides, geothermal heat and alternatives to gasoline. These sources have the advantage of producing energy while reducing emissions of greenhouse gasses (GHG) such as nitrogen oxides and sulfur dioxide.



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Visit the



Clean Power Education Center



The CPEC's mission is to educate and raise the awareness of High Desert communities of the benefits of renewable energy and the choices now available that can have a positive impact on our present world energy demands while improving the quality of our air.



What is the CPEC?

Located in the lobby of the MDAQMD's Victorville offices, the CPEC was designed to promote renewable, clean sources of energy and educate the public about the benefits of using clean energy to the environment, the economy and future energy demands.

The display includes a 1/48 scale working model of the District's rooftop Solar Electric System and actual PV solar cells from two solar installations located throughout the High Desert.

Since its 2004 installation, the MDAQMD's solar system has produced more than 1,500,000 kWh of electricity, which has saved the District approximately \$240,000 in energy costs and prevented approximately 877 tons of CO₂ emissions.

Renewable Energy Reduces Emissions

Solar electric systems make environmental sense. Solar arrays produce no harmful emissions such as nitrous oxides, sulfur dioxide and carbon dioxide, which are major contributors to poor air quality known as smog. And here in the High Desert, we have no shortage of sunshine!



Wind turbines convert the kinetic energy in the wind into mechanical power. This mechanical power can be used for specific tasks (such as pumping water) or a generator can convert this mechanical power into electricity to power homes, businesses, and schools.



Benefits of Renewable Energy

Reducing emissions can lead to improved public health and enhanced environmental quality. Generating electricity from renewable energy rather than fossil fuels (which are non-renewable) offers significant public health benefits. The air and water pollution emitted by coal and gas fired plants is linked to breathing problems and many other health issues.

Renewable energy sources include solar power, wind power, hydroelectricity, geothermal, biomass energy, and biofuels, which are chiefly used for transportation.

